9584

SONY

Rear Projector

RVP-6000Q/6000QM

Operating Instructions Page 2

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Installation and preliminary adjustments should be performed by qualified Sony personnel.

Mode d'emploi Page 28

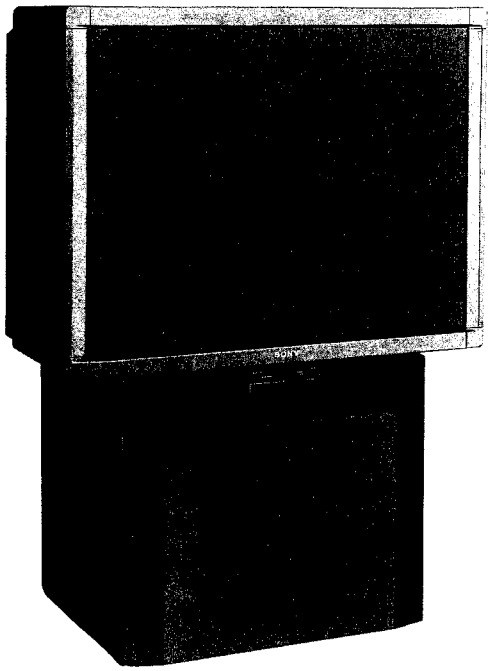
Avant de faire fonctionner l'appareil, prière de lire attentivement ce manuel et de le conserver à titre de référence ultérieure.

L'installation et les réglages préliminaires doivent être réalisés par un personnel Sony qualifié.

Bedienungsanleitung Seite 54

Lesen Sie vor der Inbetriebnahme diese Anleitung bitte sorgfältig durch und bewahren Sie sie zum späteren Nachschlagen gut auf.

Installation und Voreinstellungen sind von Sony Fachpersonal durchzuführen.



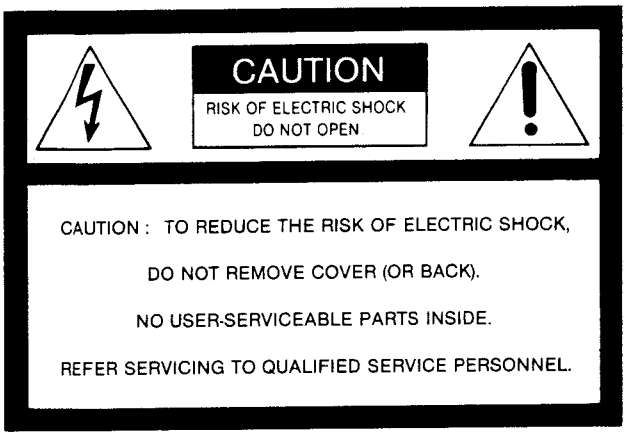
© 1990 by Sony Corporation

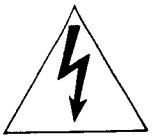
MC-Service

English

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's Record

The model and serial numbers are located on the side. Record the serial number in the space provided below. Refer to these numbers whenver you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

For the Customers in the USA

Warning — This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Important — To insure that the complete system (including this peripheral) is capable of complying with the FCC requirements, it is recommended that the user make sure that the individual equipment of the complete system has a label with one of the following statements.

"This equipment has been tested with a Class A Computing Device and has been found to comply with Part 15 of FCC Rules."

-or-

"This equipment complies with the requirements in Part 15 of FCC Rules for a Class A Computing Device."

-or equivalent.

For the Customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in Radio Interference Regulations.

Notice for the Customers in the United Kingdom

WARNING
THIS APPARATUS MUST BE EARTHED

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow : Earth
Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Table of Contents

Warning 2
Precautions 3
Features 4
Location and function of controls 6
Projecting 12
Centering adjustment 20
System connections 22
Specifications 25

Precautions

On safety

- Check that the operating voltage of your unit is identical with the voltage of your local power supply. If voltage adaptation is required, consult your Sony dealer or qualified personnel.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it further.
- Unplug the unit from the wall outlet or set the MAIN POWER switch to OFF if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.

On installation

- Allow adequate air circulation to prevent internal heat built-up. do not place the unit on surface (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity, mechanical vibration or shock.
- To avoid moisture condensation, do not install the unit in a location where the temperature may rise rapidly.

On illumination

- To obtain the best picture, the front of the screen should not be exposed directly to illumination or sunlight.
- Ceiling mounted spot lighting is recommended. Use a cover over fluorescent lamps to avoid lowering contrast ratio.
- Cover any windows that face the screen with opaque draperies.
- It is desirable to install the projector in a room where floor and walls are not of light-reflecting material. If the floor and walls are of reflecting material, it is recommended that the carpet and wall paper be changed to a dark color.

On cleaning

- To keep the cabinet looking brand-new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents, such as thinner or benzine, or abrasive cleansers, since these will damage the cabinet.
- Avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.

On repacking

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.

Features

Multiscan projector

The projector accepts and detects automatically the horizontal scanning frequencies between 15 kHz–65 kHz and the vertical scanning frequencies between 38 Hz–150 Hz.
In addition to high-resolution pictures from computers, pictures from teletext decoders, VCRs, and video cameras can also be projected.

Bright image – luminance 150 lx

A newly-developed phosphor, large CRT, and improved high voltage circuitry provides super brightness.

Fine-detailed picture resolution – 1280 dots

Sony HACC (High-resolution Aspherical and Color Corrected) lens contributes to picture sharpness and improved contrast. High quality picture with a resolution of 1280 dots is obtained combining the use of an electron gun for a sharp picture, a colored coolant filter for efficient color reproduction, a double focus lens for accurate focus in the corners as well as the screen center, and an anti-reflection coating to improve focus and contrast in the corners.

Wireless and wired remote control

All adjustments can be remotely controlled with the supplied Remote Commander. The Commander can also be connected to the projector with a cable and used as a wired Commander.

On-screen display

Adjustment instructions and indications such as picture and sound controls and guide and error messages can be displayed on the screen. The current setting of each control and input condition can also be displayed.

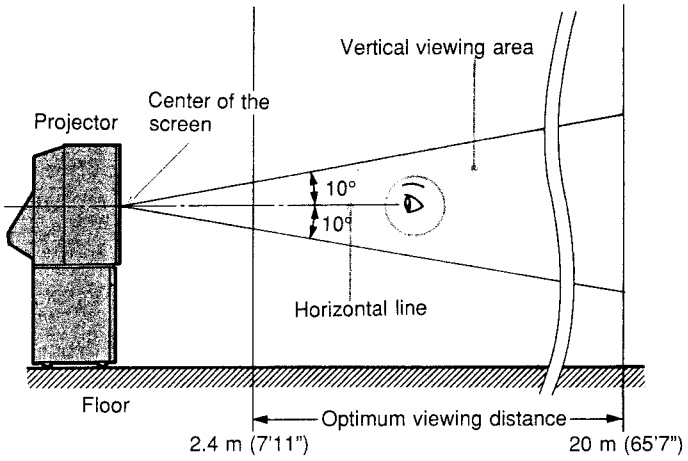
Other features

- **Four color systems available**
  One of PAL, SECAM, NTSC or NTSC4.43* color systems is selected automatically
- **Illuminated Remote Commander and control panel**
  When the LIGHT button on the Remote Commander or control panel on the projector is pressed, the indications are illuminated for easy operation in dim or dark places.
- **Internal test signal**
  Centering adjustment can be performed easily by projecting the built-in cross-hair test signal. No external test signal is needed.

* A signal of NTSC4.43 system is obtained by playing back NTSC-recorded video tapes with a video tape recorder/ player specially designed for use with this system.

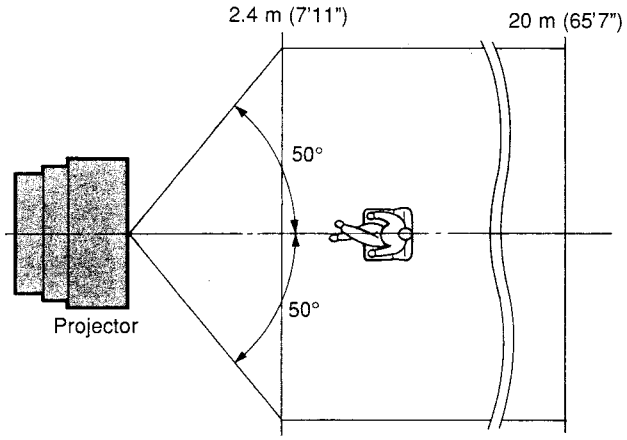
Viewing Area

Vertical viewing area



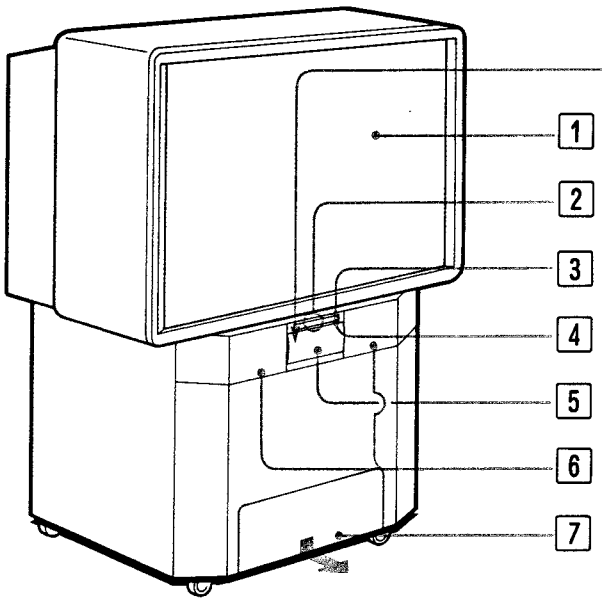
Margin of error: ±1%

Horizontal viewing area

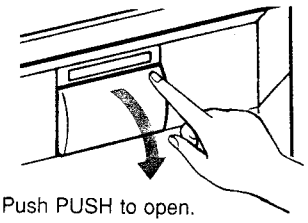


Location and Function of Controls

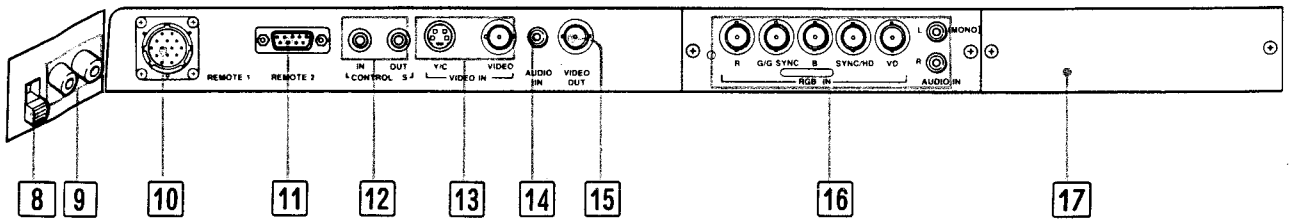
Front



How to open the control panel cover



Push PUSH to open.



[1] **Screen**

[2] **Remote control detector**

[3] **POWER indicator**
Green indicator is on when the power is turned on.

[4] **STANDBY indicator**
When the MAIN POWER is on, the red light indicating standby will be on. When the red light is on, the projector can be controlled with the Remote Commander.

Note
When the MAIN POWER is turned off, there will be a slight delay before the red light goes off.

[5] **Control panel**
The keys inside the panel cover are the same as the Remote Commander.

[6] **Speaker**

[7] **Connector cover**
The location of the connector is indicated on the back.

[8] **SPEAKER switch**
Set to ON to use the built-in speakers.
Set to OFF when you do not use the built-in speakers.

[9] **AUDIO OUT (VARIABLE) connectors**
Connect to an audio amplifier. The output level can be adjusted with the VOL keys of the supplied Remote Commander.

[10] **REMOTE 1 connector** (14 pin)
Connect to REMOTE 1 connector of the optional switcher PC-1270/1270M.

[11] **REMOTE 2 connector** (9 pin)
Connect RSS-422 interface for interactive communication with the external equipment. Take off the red cap before use.

[12] **CONTROL S IN/OUT connectors**
Connect to the CONTROL S connectors of other Sony equipment. It is then possible to control the whole system with a single Remote Commander.
CONTROL S IN: Connect to the CONTROL S OUT of the Remote Commander to be used as a wired commander.

[13] **VIDEO IN connectors**
Y/C (4-pin): Connect to the Y/C output of a VCR.
VIDEO (BNC type): Connect to the video out put of a video equipment.

Note
The VIDEO connector is disconnected automatically when a cable is connected to the Y/C connector.

[14] **AUDIO IN jack** (phono)
Connect to the audio output of video equipment.

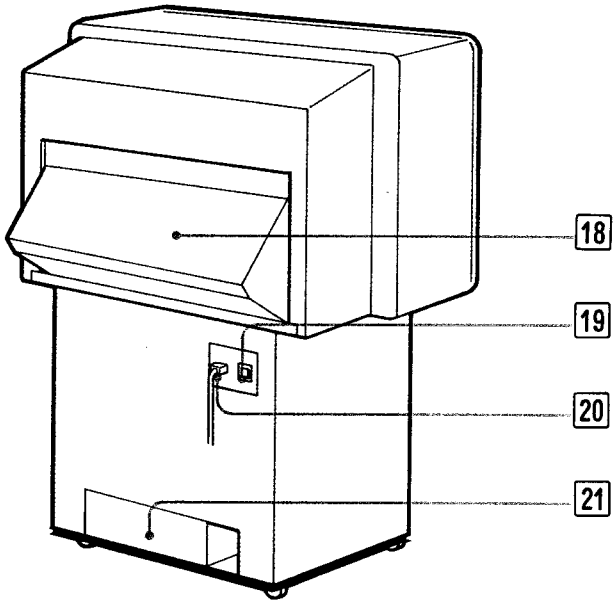
[15] **VIDEO OUT connector** (BNC type)
Loop-through output of the VIDEO connector. Connect to the video input of a VCR or another monitor. The signal input from Y/C connector is not output from this connector.

[16] **INPUT A connectors** (BNC type)
R, G/G SYNC, B, SYNC/HD, VD connectors:
Connect to the RGB outputs of a computer or a video camera.

[17] **INPUT B connectors section**
To expand the system connection, install the optional interface board IFB-10, 20, 30, or 1000.

MC-Service

Rear



18 **Mirror cover**
This can be aligned to the back of the cabinet for transportation.

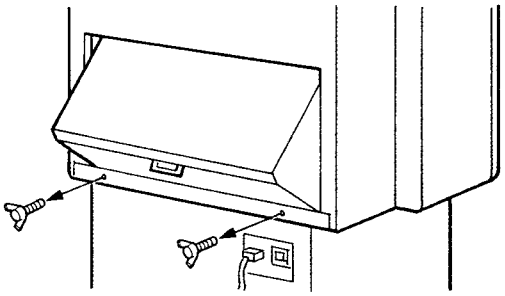
19 **MAIN POWER switch (▬ON/▮OFF)**

20 **AC IN socket**
Connect the supplied AC power cord (mains lead).

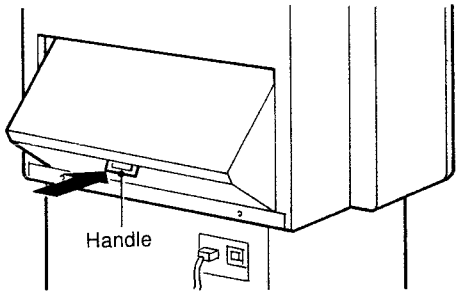
21 **Rack**

How to align the mirror cover to the back of the cabinet for transportation

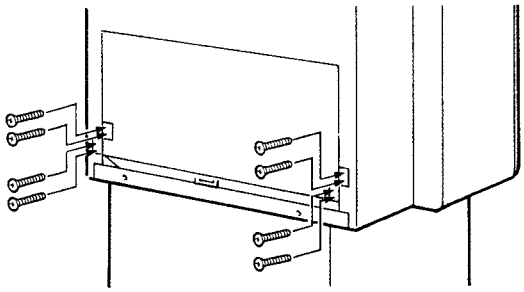
1 **Remove the wing screws.**



2 **Hold the handle, and press the mirror cover into the cabinet until it clicks.**



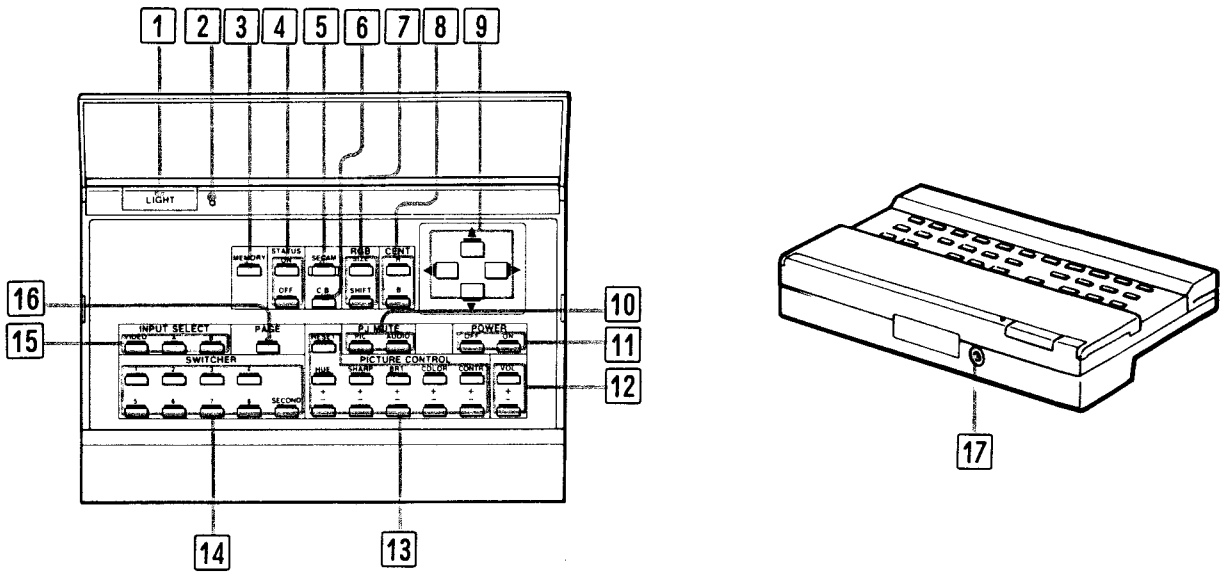
3 **Secure the mirror cover with the metal plate.**



After transportation, pull the mirror cover fully out and secure it with the wing screws.

Remote Commander RM-1270

The same keys are inside the control panel of the projector.



1 LIGHT button
Press to illuminate the indications on the Commander. The light will go off in about 10 seconds after the operation.

2 Indicator
Lights when any of the buttons on the Commander is pressed. If the indicator does not light, battery replacement is required.

3 MEMORY key
Press to store the adjustment data.

4 STATUS ON/OFF key
Press OFF key to cut the on-screen display. However, PAGE is displayed even when in OFF mode. "OFF" indication will be displayed if a key is pressed when in OFF mode. Press ON key to restore the on-screen display.

5 SECAM key
Press when the color of a picture from SECAM color source is incorrect. Press again to switch over to other standard system sources, NTSC or PAL.

6 C.B. (Clear Blue) **key**
Press to make the blue color clear in the picture input from RGB IN connectors. Press again to restore the normal condition.

7 RGB SIZE/SHIFT keys
Press to adjust the picture input from RGB IN connectors.

SIZE: Press to enter the size adjustment mode. The size adjustment of the picture is performed using the four arrow keys.
- ◄ .....to reduce horizontal size
- ► .....to expand horizontal size
- ▲ .....to expand vertical size
- ▼ .....to reduce vertical size

SHIFT: Press to enter the shift adjustment mode. The shift adjustment of the picture is performed using the four arrow keys. The picture shifts according to the direction of the arrow.

8 CENT R/B keys
Press for centering adjustments of the red or blue.
R: Press to enter the red centering adjustment mode.
B: Press to enter the blue centering adjustment mode.
The centering adjustments are performed using the four arrow keys.

9 Arrow keys
Used for various adjustment functions.

10 PJ MUTE keys

PIC: Press to cut off the picture. To restore the picture, press PIC again or CONTR +.

AUDIO: Press to cut off the sound. To restore the previous sound level, press AUDIO again or VOL +.

[11] **POWER ON/OFF keys**
Press to turn on and off the projector (when the MAIN POWER is ON).

[12] **VOL +/– keys**
Press to adjust volume.
+: to increase volume
–: to decrease volume

[13] **PICTURE CONTROL keys**
Press to adjust picture condition: hue, sharpness, brightness, color, and contrast. Press RESET key to restore the factory preset levels

[14] **SWITCHER keys**
When the PC-1270/1270M switcher is connected to the projector, press the number key to select the input from the switcher. SECOND key is used when there are two switchers. To control the second switcher (SINGLE/SECOND/REMOTE switch is set to SECOND), first press SECOND key and then the number key.

[15] **INPUT SELECT keys**
Press to select the input signal.
VIDEO: to select the signal input from VIDEO IN (Y/C or VIDEO) connectors
A: to select the signal input from RGB IN connectors
B: to select the signal input from the connectors of "B" section (optional interface board)

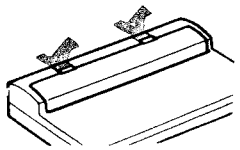
Note
For the location of "A" and "B", see page 12.

[16] **PAGE key**
Press to display and switch the following four on-screen displays. (On PAGE 1, 2, and 3, adjustment can also be done.)
PAGE 1: Displays STATUS ON/OFF, PIC MUTE ON/OFF, AUDIO MUTE ON/OFF, CLEAR BLUE ON/OFF, and SECAM ON/OFF.
PAGE 2: Displays the picture conditions; contrast, color, brightness, sharpness, hue, and volume levels.
PAGE 3: Displays the color temperature level.
PAGE 4: Displays the input signal conditions; fH, fV, H/C-sync, V-sync, Sync on Green, and input signal.

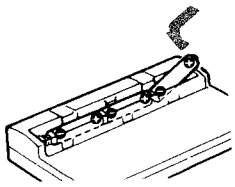
[17] **CONTROL S OUT connector**
Connect the supplied cable to this connector and to CONTROL S IN connector of the projector for wired Commander application.

Battery installation

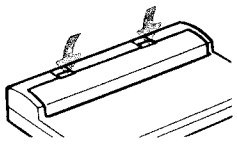
1 **Push to open the lid.**



2 **Install three R6 (AA) batteries with the correct polarity.**

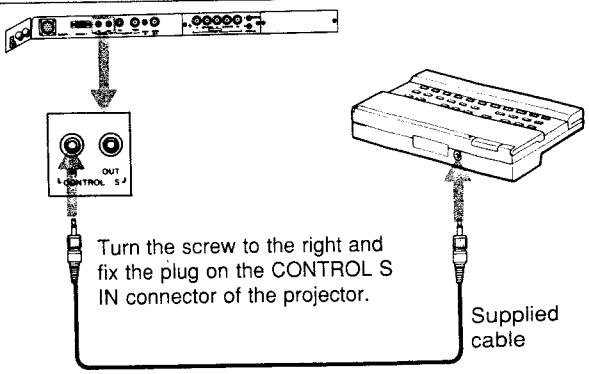


3 **Replace the lid.**



- If the projector does not operate properly, the batteries might be worn out. Replace all of them with new batteries.
- The life of the batteries depends on how often you use the Commander. If they wear out quickly, replace them with new alkaline batteries.
- To avoid damage from possible battery leakage, remove the batteries when the Commander will not be used for a long time.
- Be sure that there are no obstructions between the Commander and the unit.
- Operable range is limited. The shorter the distance between the Commander and the projector, the wider the angle within which the Commander can control the projector.

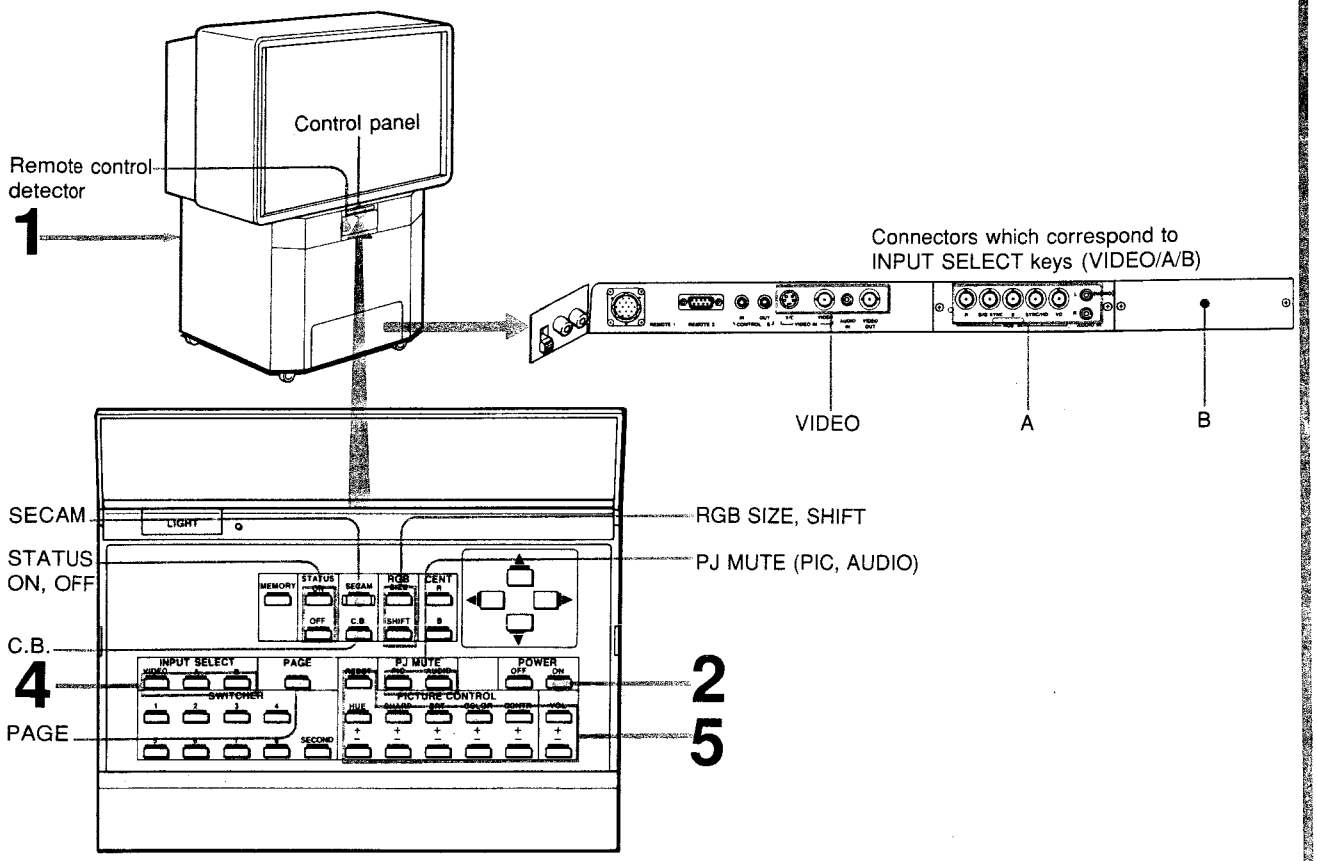
To connect the Remote Commander to the projector



- When the connection is made, the remote control detectors of the projector will not function.
- For wireless operation, make sure to disconnect both plugs after using the Commander wired.

Projecting

The keys on the control panel of the projector are the same as those found on the Remote Commander.



1 **Depress MAIN POWER switch at the rear (▬ ON).**

2 **Press POWER ON key on the Remote Commander or the control panel.**

3 **Turn on the connected equipment.**

4 **Select the input signal to be projected by pressing INPUT SELECT key** (VIDEO, A or B).
VIDEO: to select the signal input from VIDEO IN (Y/C or VIDEO) connectors
A: to select the signal input from RGB IN connectors
B: to select the signal input from the connectors of "B" section (optional interface board)

5 **Adjust the picture and sound.**

To cut the on-screen display

Press STATUS OFF key.
However, PAGE is displayed even when in OFF mode.
To restore the on-screen display, press STATUS ON key.

To cut off the sound or picture

To mute the sound
Press PJ MUTE AUDIO key. To restore the previous sound level, press PJ MUTE AUDIO key again or VOL + key.

To cut off the picture
Press PJ MUTE PIC key. To restore the previous brightness level, press PJ MUTE PIC key again or CONTR + key.

Notes on projecting a picture input from RGB IN connectors

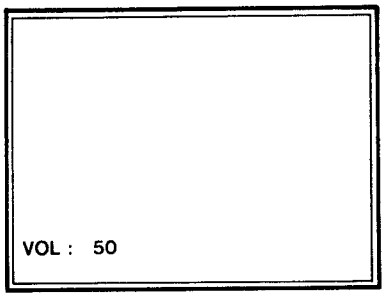
- To make the blue color clear, press C.B. key. Press again to restore the normal condition.
- If necessary, adjust the size and shift of the picture using the RGB SIZE/SHIFT and arrow keys.

If the SECAM color source is incorrect

Press SECAM key. Press again to switch over to other standard system sources, NTSC or PAL.
If you wish to keep the C.B. ON/OFF or SECAM ON/OFF setting, store the data (see page 18).

Adjusting the Picture and Sound

Use the VOL and PICTURE CONTROL keys on the Remote Commander.
The adjustment levels are digitally displayed on the screen having a range of MIN, 1, 2, ..., 98, 99, MAX.



VOL +/– keys + : to increase volume
– : to decrease volume

CONTR +/– keys + : to increase picture contrast
– : to decrease picture contrast

COLOR +/– keys + : to increase color intensity
– : to decrease color intensity

BRT +/– keys + : to make the picture brighter
– : to make the picture darker

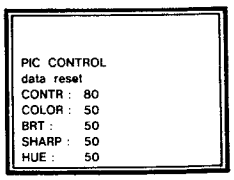
SHARP +/– keys + : to make the picture sharper
– : to make the picture softer

HUE +/– keys + : to make skin tones greenish
– : to make skin tones purplish

- COLOR, SHARP and HUE controls do not function on the picture input from RGB IN.
- HUE control does not function with PAL or SECAM color source.

To restore the factory preset levels

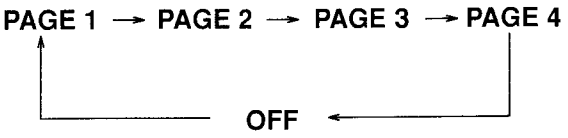
Press RESET key. The factory preset levels will be displayed on the screen.



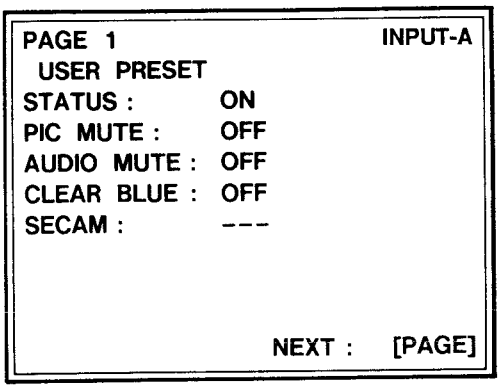
MC-Service

To Display the Current Control Settings and Conditions

Press PAGE key for displaying the following four on-screen displays. Adjustment can also be done on PAGE 1, 2, and 3. The displays will switch as follows every time PAGE key is pressed:

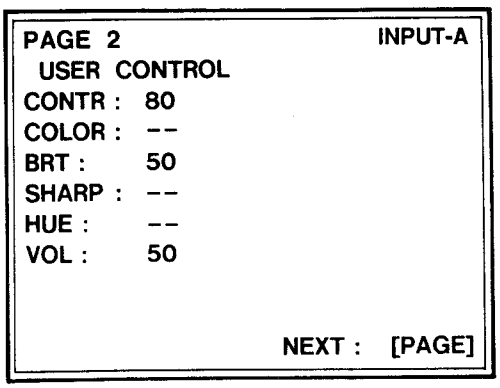


PAGE 1



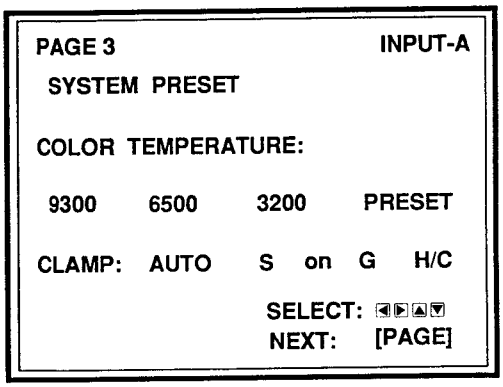
The STATUS ON/OFF, PIC MUTE ON/OFF, AUDIO MUTE ON/OFF, CLEAR BLUE (C.B.) ON/OFF, and SECAM ON/OFF settings are displayed. "— —" indicates that the control does not function with the current input signal.
To change the settings, adjust with appropriate key.

PAGE 2



The picture conditions; contrast, color, brightness, sharpness, hue, and volume levels are displayed. "— —" indicates that the control does not function with the current input signal. (In this case, the input signal is PAL or SECAM.)
To change the levels, adjust with VOL and PICTURE CONTROL keys.

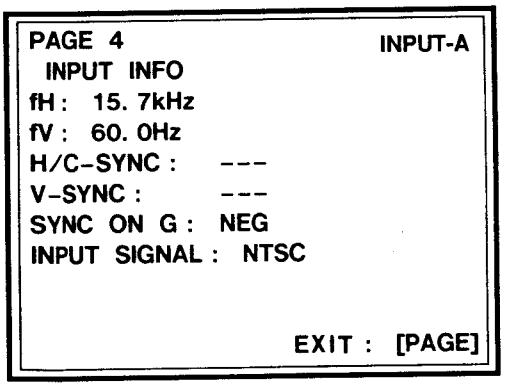
PAGE 3



The color temperature and clamp settings are displayed.
The selected item blinks in green.
To change the setting, adjust by pressing ◄, ►, ▲, or ▼ keys.
For details of the clamp setting, see "If the luminance of the picture is incorrect — clamp setting" on page 19.

Note
"CLAMP" is not displayed when the input mode is VIDEO.

PAGE 4



The signal input conditions are displayed.

fH: The horizontal frequency of the input signal
fV: The vertical frequency of the input signal
H/C-SYNC: The polarity of the H/C-SYNC
V-SYNC: The polarity of the V-SYNC
SYNC ON G: The polarity of the SYNC on the Green
INPUT SIGNAL: The current input signal

POS: positive
NEG: negative
— —: no input

Each indication means the following input signal:
Y/C: S video signal
RGB: RGB signal
NTSC: Video signal of NTSC system
PAL: Video signal of PAL system
SECAM: Video signal of SECAM system
B&W: Black and white video signal
Internal Oscillation:
Internal oscillation mode when no signal is input

The projector operates with the sync signal indicated in green.

MC-Service

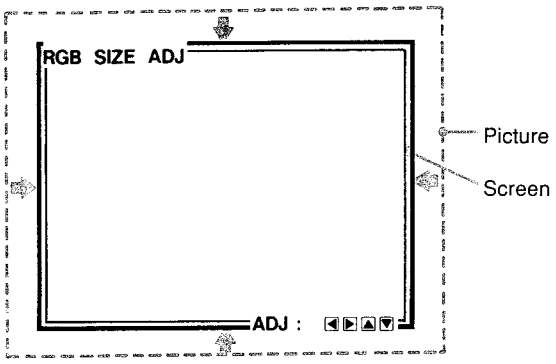
Adjusting the picture input from RGB IN

If necessary, adjust the size and shift of the picture using the RGB SIZE/SHIFT and arrow keys.
This adjustment does not function with input signal from VIDEO IN connectors.

After the RGB SIZE/SHIFT adjustment, press the selected INPUT SELECT key (A or B) to cut the on-screen display.
If you wish to keep the current adjustment setting, save the data (see page 18).

RGB SIZE adjustment

If size of the picture does not fit the screen, adjust RGB SIZE.



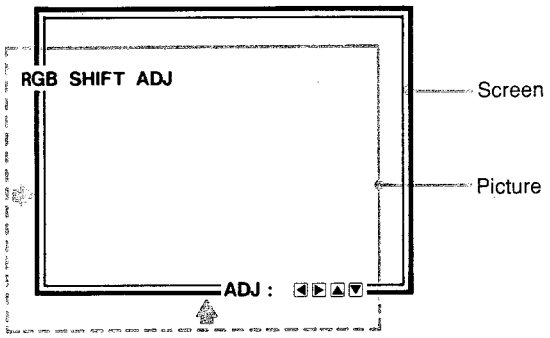
1 **Press RGB SIZE key.**

2 **Adjust by pressing arrow keys so that the picture fits the screen.**

- ◀ to reduce horizontal size
- ▶ to expand horizontal size
- ▲ to expand vertical size
- ▼ to reduce vertical size

RGB SHIFT adjustment

If the picture needs to be shifted to fit the screen, adjust RGB SHIFT.



1 **Press RGB SHIFT key.**

2 **Adjust by pressing arrow keys so that the picture fits the screen.**
The picture shifts according to the direction of the arrow.

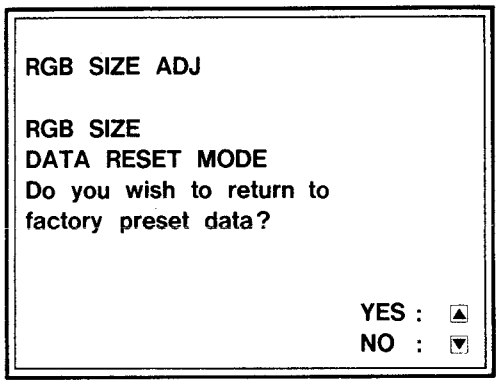
After the RGB SIZE/SHIFT adjustment, press the selected INPUT SELECT key (A or B) to cut the on-screen display.

If you wish to keep the current adjustment setting, store the data (see page 18).

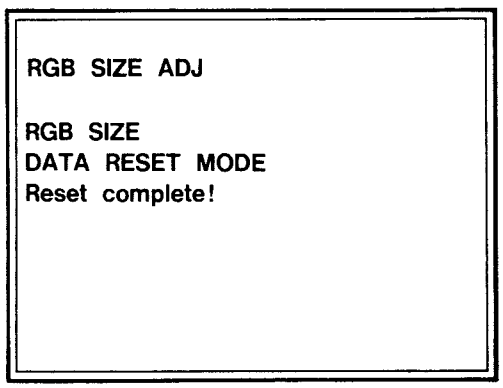
Resetting RGB SIZE/SHIFT to factory preset condition

1 **Press RGB SIZE or SHIFT key.**

2 **Press ◄ and ► keys simultaneously.**
The following on-screen display appears on the screen.



3 **Press ▲ key.**
The following on-screen display appears on the screen to confirm that resetting was completed.
To keep the current setting instead of resetting, press ▼ key.

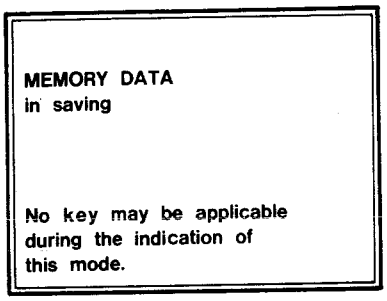


To Store the Adjustment Levels

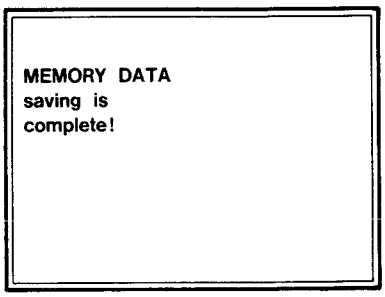
If you wish to save the picture adjustment changes, you must store them in memory.
The following conditions can be stored:

SECAM ON/OFF setting
CLEAR BLUE (C.B.) ON/OFF setting
COLOR TEMPERATURE setting on PAGE 3
RGB SIZE/SHIFT adjustment levels

1 **After the adjustment, press MEMORY key.**
The following on-screen display appears to indicate that storing has begun. While the display is on, no other key will function.



2 **The following on-screen display appears to confirm that storing has been completed.**



Messages on the Screen

The meaning of the color
Four colors are used in the letters of on-screen display.

Color	Meaning
Green	Function and condition
Cyan	Operation guide and messages
Yellow	Caution and error messages
White	Item being adjusted

Error messsage
When you perform an error in operation, the following messages will be displayed.

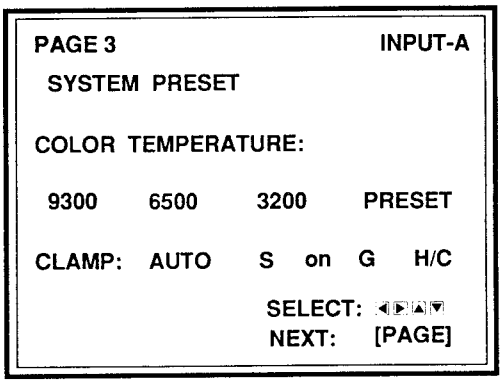
Messages	Meaning
Not applicable!	The control dose not function with the current input.
PIC MUTE	PIC MUTE is set to ON. If you want to adjust the picture controls, press PJ MUTE PIC key to cancel the PIC MUTE mode.
Overflow!	RGB SIZE/SHIFT and CENT R/B adjustment range limit has been reached.
OFF	STATUS is set to OFF to cut the on-screen display. To restore the on-screen display, press STATUS ON key.

If the Luminance of the Picture is Incorrect – Clamp Setting

Clamp is used as a standard for setting the black level of the picture correctly. The standard position of the clamp depends on the kind of the sync signal. Normally the CPU may judges the signal and sets the clamp position automatically.

However, the CPU may misjudge the signal because of noise. If the luminance of the picture seems to be incorrect, (too dark, the black color is too light, or the luminance is unstable) the clamp position may needs to be changed. In such case, change the clamp position following the procedure below.

1 **Press Page key 3 times.**



2 **Select the clamp postion by pressing ◀, ▶, ▲ and ▼ keys.**

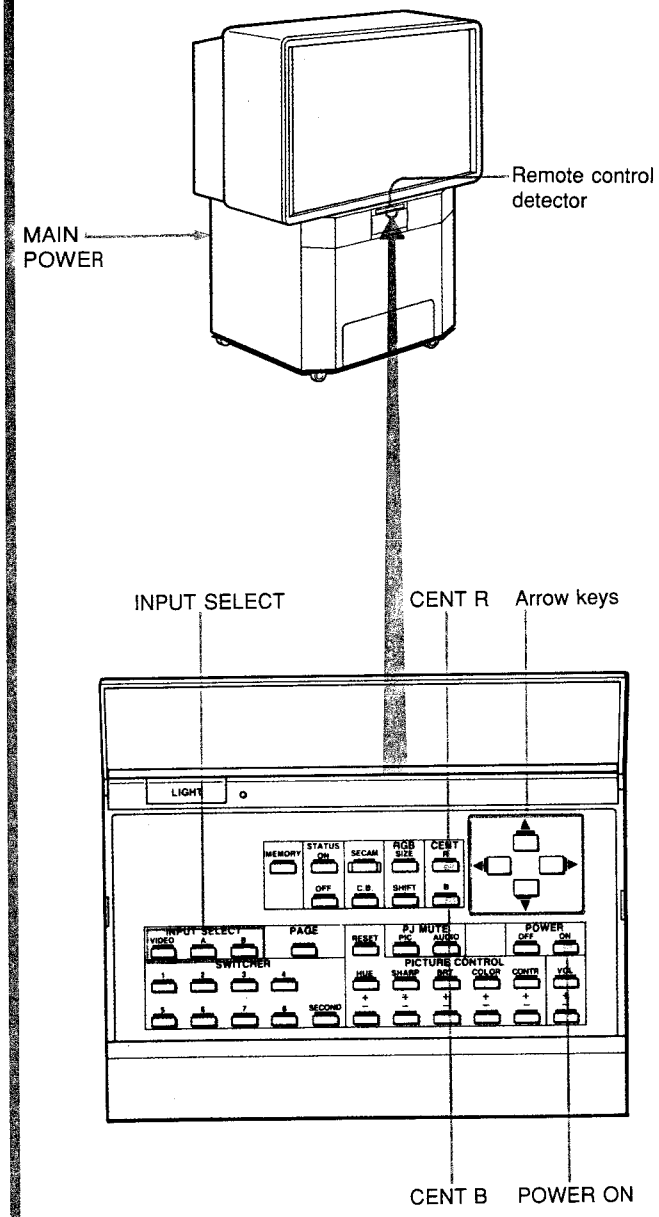
AUTO: Automatic setting mode. Normally, set to this position.
S on G: If the black color is too light or seems to be green, set to this position.
H/C: If the picture is too dark or the luminance is unstable, set to this position.

3 **Press MEMORY key to save the data.**

If the luminance is still incorrect after changing the clamp setting
There may be other problem with the input signal or connection. Check the input signal.

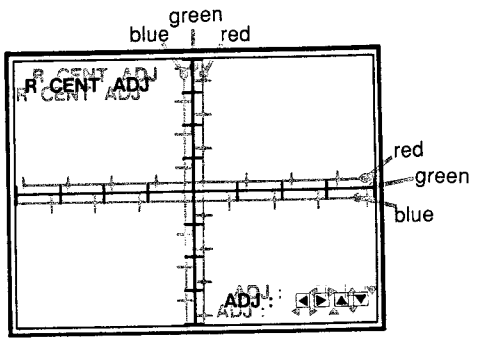
Centering Adjustment

The three colors red, green and blue must converge for proper projection. If they do not converge, centering adjustment is necesssary.



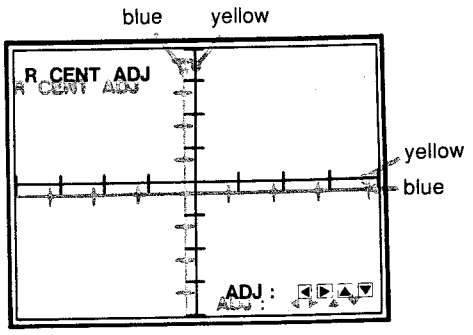
1 **Press MAIN POWER switch of the projector and press POWER ON key of the Remote Commander.**

2 **Press CENT R key.**
The built-in cross hair test pattern will be displayed and the red line will be operable.



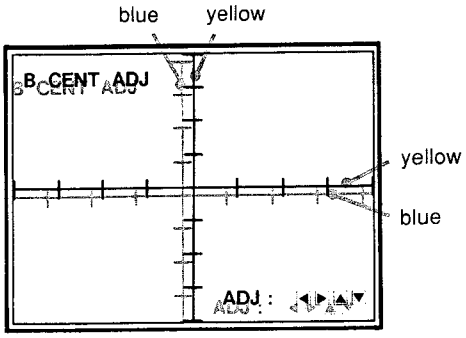
(Three colors do not converge.)

3 **Press arrow keys to move the red line until the red and green lines converge and are seen as yellow.**
The red line will move according to the direction of the arrow.

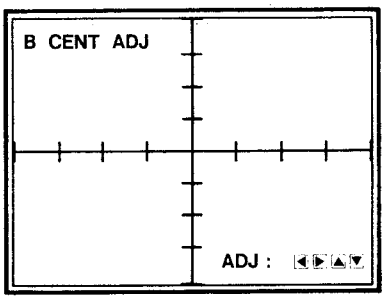


(Green and red converged.)

4 **Press CENT B key.**
The blue line will be operable.



5 **Press arrow keys to move the blue line until the blue and yellow lines converge.**
When all three color lines converge, the pattern will be seen as white.



(Three colors converged.)

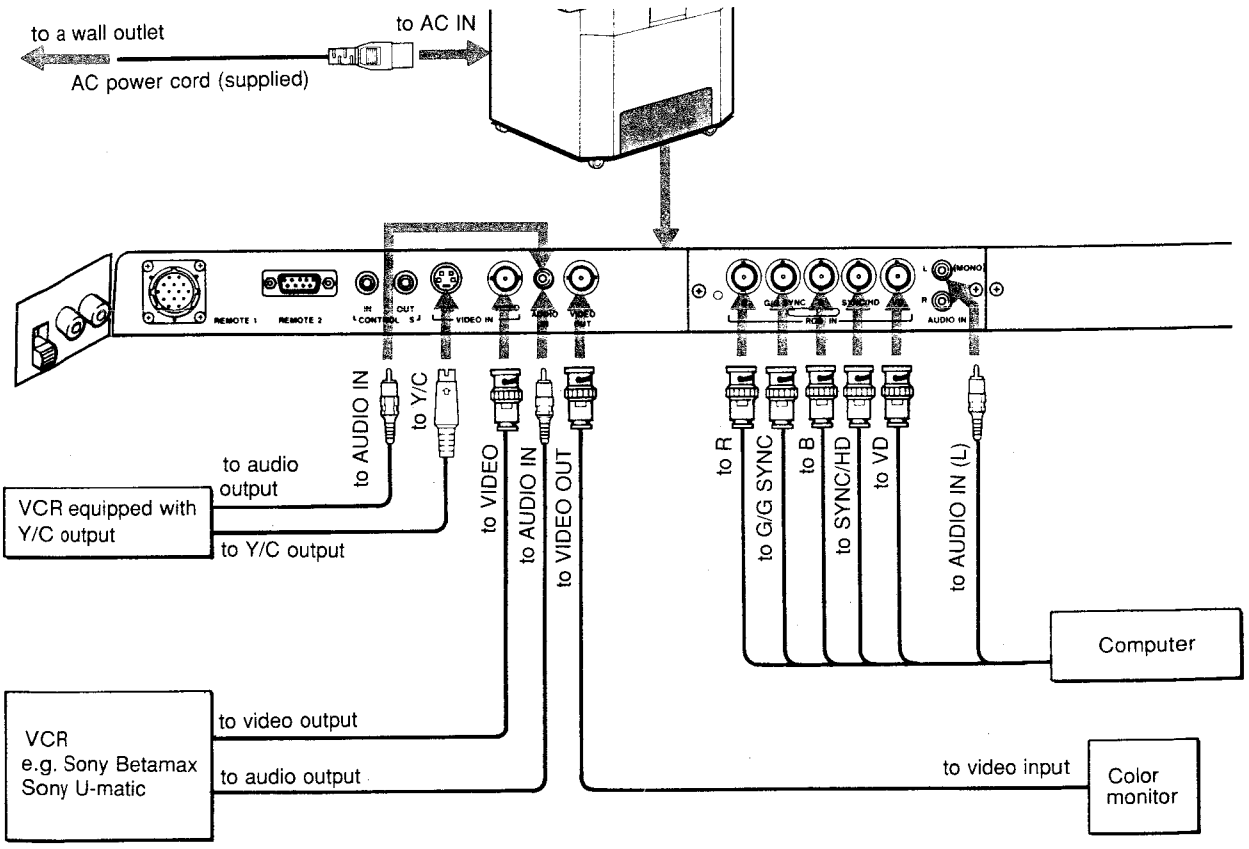
6 **Press the selected INPUT SELECT key (VIDEO, A or B) to exit the test pattern mode.**

System Connections

Notes on connection

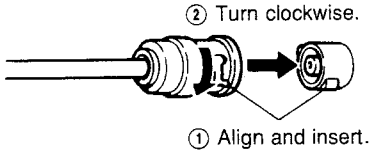
- First make sure that the power to each piece of equipment is turned off.
- Use connecting cables suitable for the equipment to be connected.
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.
- To disconnect the cable, pull it out by grasping the plug. Never pull the cable itself.
- For connection to the REMOTE 1 connector, the connecting cable may be extended to maximum 50 m for VIDEO input and 25 m for RGB input. If the connecting cable is longer than that, picture quality may be impaired somewhat. To extend the connecting cable for RGB input longer than 25 m, please consult the qualified Sony personnel.
- Read the instruction manual of the equipment to be connected.

Connecting to the Projector Directly



Notes

- The VIDEO connector is disconnected automatically when a cable is connected to the Y/C connector.
- The external sync signal has priority over the internal sync signal. However, when the external sync signal is incomplete, the internal sync signal has priority.



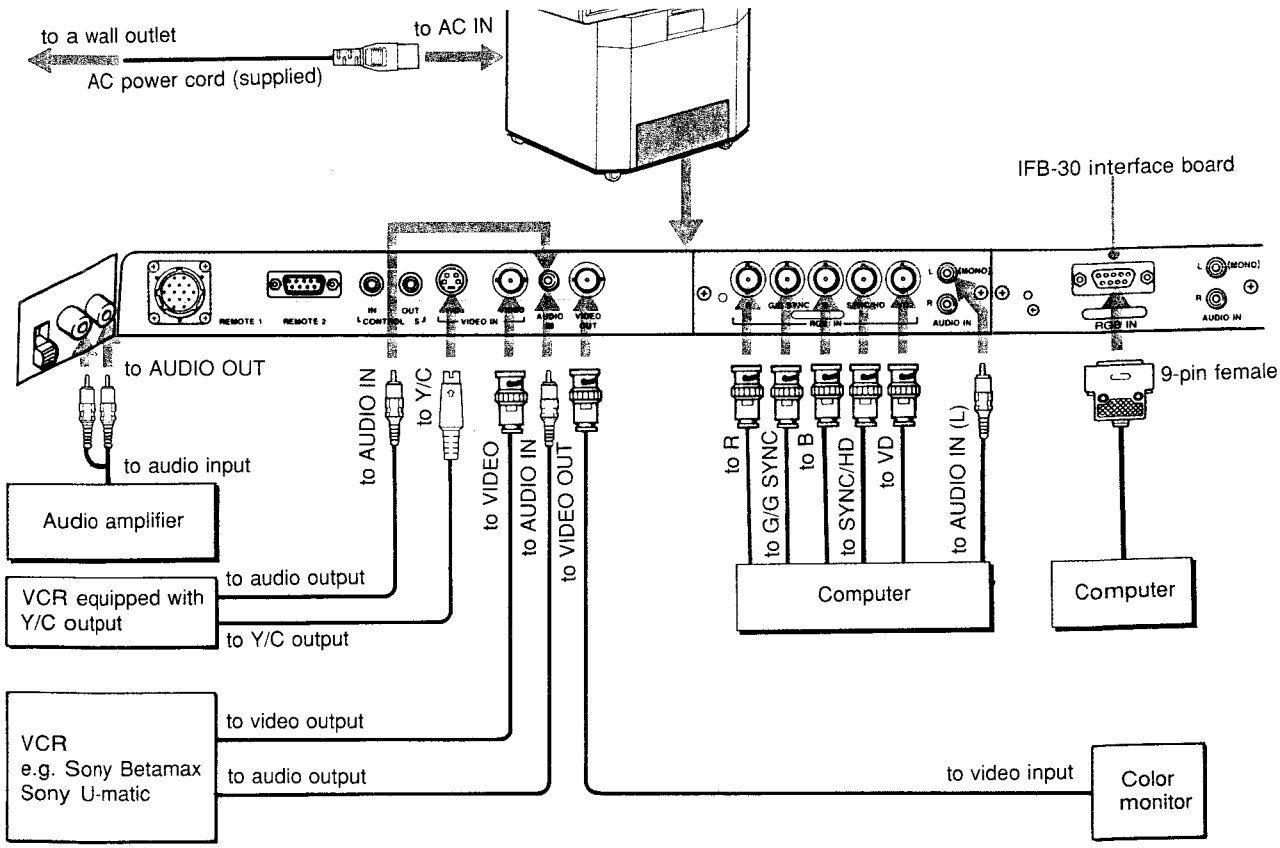
Notes

- Do not leave a still picture from a computer or video disc player projected for more than one hour.
- Depending on the computer, the dimensions of the character display area may change or the picture may be uncentered. This is not a fault of the projector.
- If your computer is equipped with a composite video output, connect it to the VIDEO IN VIDEO connector of the projector.
- If necessary, adjust the size and shift of the picture using RGB SIZE/SHIFT and arrow keys (see page 16).

Using the Interface Board

Use the optional interface board IFB-10, 20, 30, or 1000 to expand the system connections.

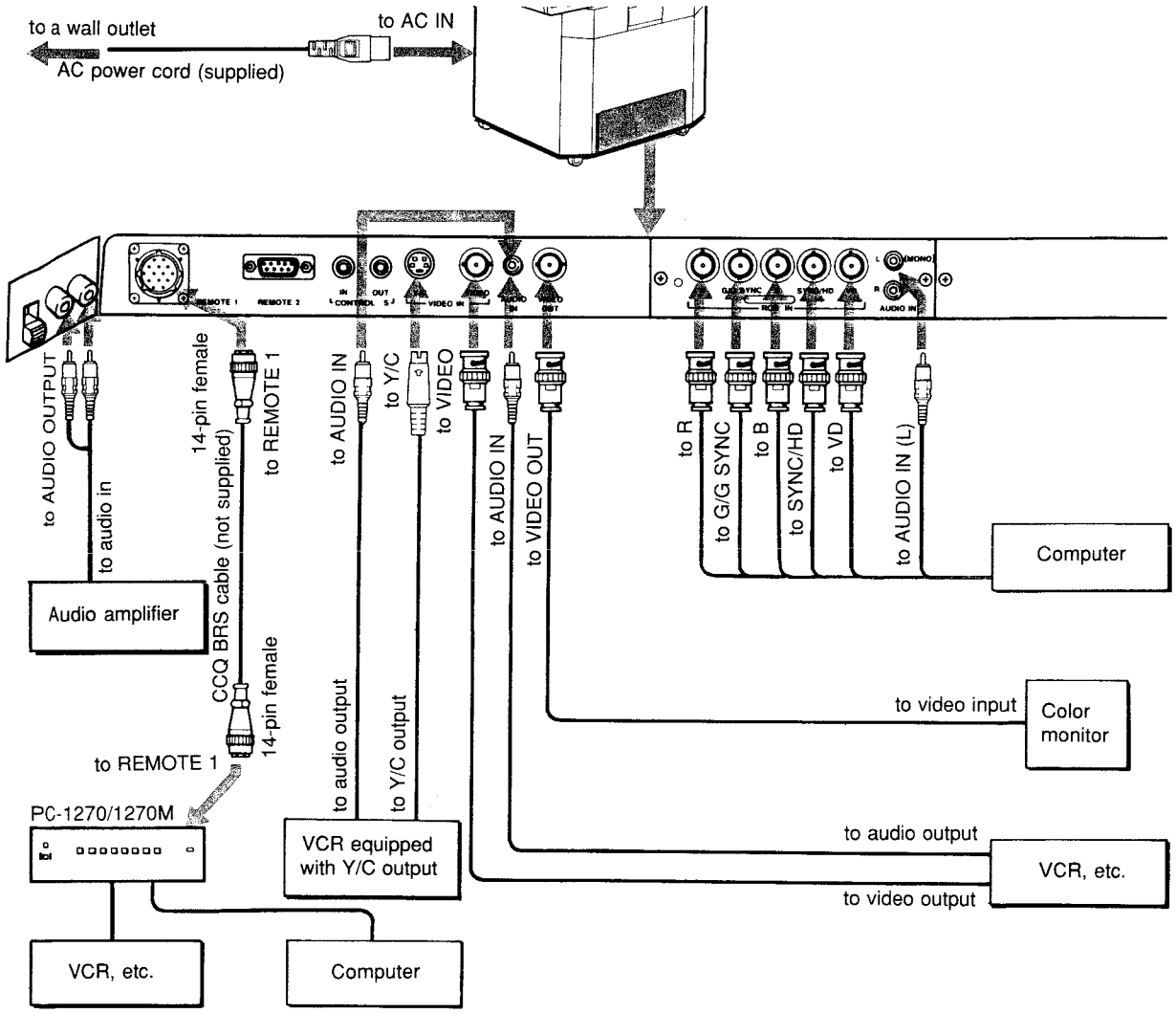
Example: Using the IFB-30 interface board



For installing the interface board, consult the qualified Sony personnel.

Using the Switcher

Use the optional switcher PC-1270/1270M for connecting various video equipment. The input is selected by pressing the SWITCHER keys on the Remote Commander.



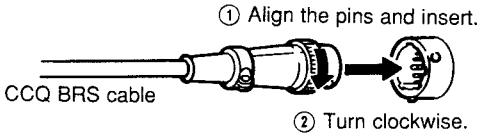
The equipment can be connected to VIDEO IN and RGB IN connectors even when the switcher is connected.

Using the SWITCHER keys on the Remote Commander

Press the number key from 1 to 8 to select the input number of the switcher. SECOND key is used when there are two switchers.

To control the second switcher (SINGLE/SECOND/REMOTE switch is set to SECOND), first press SECOND key and then the number key.

14-pin connector



Specifications

Optical

Projection system 3 picture tubes, 3 lenses, Horizontal inline system, Rear projection type

Picture tube 7-inch high-brightness monochrome tubes, with coolant sealed

Projection lens HACC (High-resolution Aspherical and Color Corrected) lenses F 1.1/116 mm

Projected picture size Factory-adjusted to 60 inches measured diagonally

Luminance 150 ft-L (white peak)

General

Color system PAL, SECAM, NTSC and NTSC4.43 systems, switched automatically

Resolution 1280 DOTs (RGB input at 15 kHz)
700 TV lines (VIDEO input)

RGB inputs Horizontal frequency:
15 kHz – 65 kHz
Vertical frequency:
38 Hz – 150 Hz

Test signal Cross hair test pattern generator is incorporated.

Speaker Total 10 W + 10 W

Inputs

VIDEO input
VIDEO IN
Y/C: 4-pin mini DIN connector
Y (luminance) signal:
1 Vp-p±2dB, sync negative, 75 ohms terminated
C (chrominance) signal:
burst 0.286 Vp-p±2dB, 75 ohms terminated (NTSC)
0.3 Vp-p±2dB, 75 ohms teminated (PAL)
VIDEO: BNC connector
Composite video input, 1 Vp-p±2dB, sync negative, 75 ohms terminated
AUDIO IN: phono jack
435 mVrms, Impedance: more than 47 kohms

RGB input
R: BNC connector
Red input, 0.7 Vp-p±2dB, 75 ohms terminated, positive
G/G SYNC: BNC connector
Green input, 0.7 Vp-p±2dB, 75 ohms terminated, positive
Green with sync input, 1 Vp-p±2dB, 75 ohms terminated, positive
B: BNC connector
Blue input, 0.7 Vp-p±2dB, 75 ohms terminated, positive
SYNC/HD: BNC connector
Composite sync input, 0.3–4 Vp-p, 75 ohms terminated, positive/negative
Horizontal sync input, 0.3–4 Vp-p, 75 ohms terminated, positive/negative
VD: BNC connector
Vertical sync input, 0.3–4 Vp-p, 75 ohms terminated, positive/negative
AUDIO IN L (MONO)/R: phono jacks
REMOTE 1 connector: 14-pin connector (see "Signal assignment")
REMOTE 2 connector: 9-pin connector (see "Signal assignment")
CONTROL S IN: minijack, 5 Vp-p

Outputs VIDEO OUT: BNC connector
Composite video output, 1 Vp-p±2dB, impedance 75 ohms, output video signal from the VIDEO IN connector
CONTROL S OUT: minijack, 5Vp-p

Power requirements RVP-6000Q: 120 V AC, 50/60Hz
RVP-6000QM: 220–240 V AC, 50/60 Hz

Power consumption 430 W (Video input)
480 W (RGB input)

Dimensions 1,340 × 1,815 × 990 mm (w/h/d)
($52^{7}/_{8} \times 71^{1}/_{2} \times 39$ inches)

Weight Approx 210 kg (462 lb 16 oz)

Accessories supplied Remote Commander RM-1270 (1) with 3 R6 (AA) batteries
Remote Commander cable (1)
AC power cord (1)

Design and specifications are subject to change without notice.

MC-Service

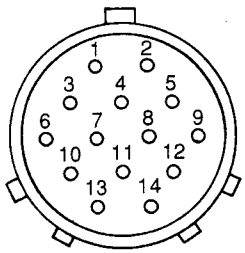
Optional accessories

Shielded cable SMF-506 (D-sub 25-pin ↔ 4 BNC)
CCQ BRS cables
Interface board IFB-10 (5 BNC)
IFB-20 (9-pin)
IFB-30 (9-pin)
IFB-1000 (9-pin) (Video, Y/C)
Signal interfaceswitcher
PC-1270/1270M

Signal assignment

REMOTE 1 connector (14-pin)

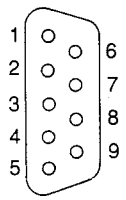
Pin No.	Signal
1	GND
2	HD/Composite Sync
3	SIRCS
4	NC
5	GND(SIRCS)
6	B/C
7	GND(B/C)
8	GND(G/Y)
9	G/Y
10	RGB/Video
11	R/Composite Video
12	Composite Video/YC
13	AUDIO
14	VD



REMOTE 2 connector (D-sub 9-pin)

Pin No.	Signal
1	Frame Ground
2	$\overline{\text{Transit A}}$
3	Receive B
4	Receive Common
5	Spare
6	Transmit Common
7	Transmit B
8	$\overline{\text{Receive A}}$
9	Frame Ground

RS-422 format



Y/C Connector (4-pin mini: DIN)